



THE PORT AUTHORITY
OF NY & NJ

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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 7-15-97 *[Signature]* SPEC. WRITER
DATE 7/12/97 *[Signature]* ENGINEER OF DESIGN

No. Date Revision Approved

Engineering Department
Design Divisions

The World Trade Center

Title
**FIRE ALARM SYSTEM
DEVICE UPGRADE
PHASE III**
ELECTRICAL
**1 WTC
TSC-M-72
BLOCK WIRING DIAGRAM**

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

S. FELDSTEIN B. FALDU
Designed by Drawn by *[Signature]*
Checked by

Date 2/4/97 Scale NONE
Contract Number Drawing Number

WTC-861.077 E-16

NOTES:

- FOR LEGEND, ABBREVIATIONS & GENERAL NOTES, SEE DWG E-1.
- ALL SHIELDS MUST BE ISOLATED FROM GROUND. APPROVED "SHRINK" TUBING SHALL BE USED ON ALL DRAIN CONDUCTORS. SEE DETAIL "A" (ON THIS DWG).
- ALL WIRING SHALL BE FREE OF GROUND FAULTS, OPENS, SHORTS & STRAY VOLTAGES.
- FOR DEVICE LOCATION AND CIRCUITRY, SEE DWG'S E-9, E-10 & E-11.
- CIRCUIT NUMBERS SHOWN IN PARENTHESIS ARE FOR INFORMATION ONLY.
- SEE DWG E-1 GENERAL NOTE 11.

LEGEND

- TERMINAL BLOCK STRIP NUMBER 5
- INDICATES DESTINATION OF CIRCUIT CABLE.
U - FOR CABLE RUN TO NEXT TSC AT FLOOR ABOVE
D - FOR CABLE RUN TO NEXT TSC AT FLOOR BELOW
M - FOR CABLE RUN TO FIELD DEVICE ON SAME FLOOR
- INDICATES CABLE NUMBER.
1 TO 5 - FOR ALD LOOP CIRCUIT
6 TO 10 - FOR TELEPHONE CIRCUIT
11 - FOR MAINTENANCE PHONE JACK CIRCUIT
12 TO 26 - FOR STROBE CIRCUIT
27 TO 42 - FOR SPEAKER CIRCUIT
- TERMINAL BLOCK BUCHANAN CAT #515.525 WITH THE BLOCK NUMBERING. ADDITIONAL MARKINGS ARE FOR INFORMATION ONLY.
- INDICATES TERMINAL BLOCK NUMBER
BRADY LABEL #TB02-502-281 (O.A.E.)
- INSULATION COLOR OF THE CONDUCTOR.
(R) - RED
(B) - BLACK
S - SHIELD/DRAIN CONDUCTOR WITH TRANSPARENT SLEEVE
- POLARITY.
+ - POSITIVE
- - NEGATIVE
S - SHIELD/DRAIN (GROUND)
- "SHRINK TUBE" - CLEAR OVERSIZED
CUT FOIL SHIELD FLUSH WITH END OF OUTER JACKET
14/2 TEFLON (SPK-A)
CONDUCTOR } INSULATED
CONDUCTOR }
DRAIN WIRE - UNINSULATED
"SHRINK TUBE" - CLEAR SINGLE WIRE
- TAG CABLE USING BRADY LABEL #WML-305-292 WITH CIRCUIT DESIGNATION AS FOLLOWS:
- CIRCUIT DESIGNATION.
SPK-A
- CIRCUIT NUMBER OR NAME.
A TO G - STROBE OR SPEAKER CIRCUIT NUMBER
ATC - CIRCUIT TO ADDRESSABLE TERMINAL STRIP CABINET.
PS - CIRCUIT TO PULL STATIONS
ELEV - CIRCUIT TO ELEVATOR LOBBY AND ELEVATOR
MACHINE ROOM SMOKE DETECTORS
HVAC - CIRCUIT TO HVAC SMOKE DETECTOR
AREA - CIRCUIT TO OPEN AREA SMOKE DETECTOR
I/C - INTERFACE CABINET CIRCUIT
MPJ - MAINTENANCE PHONE JACK CIRCUIT
WP - WARDEN TELEPHONE CIRCUIT
SJ - STAND PIPE PHONE JACK CIRCUIT
- TYPE OF CIRCUIT.
STR - STROBE CIRCUIT
SPK - SPEAKER CIRCUIT
ALD - ALD LOOP DEVICE CIRCUIT (EXCEPT SMOKE DETECTOR)
TEL - TELEPHONE CIRCUIT
SD - SMOKE DETECTOR CIRCUIT

DETAIL "A" - TYPICAL SHIELD/DRAIN INSULATING METHOD

